

JORDAN TIMES

An independent Arab political daily published by the Jordan Press Foundation
جورنن تايمز يومية سياسية تصدر بالعمارة عن المؤسسة الصحفية الأردنية (الراي)

Waldheim heads for M.E. Jan. 31

UNITED NATIONS, Jan. 25 (R). — Secretary General Kurt Waldheim will leave New York next Monday on his way to the Middle East for talks with Arab and Israeli leaders on how to resume peace negotiations, it was announced today. It was understood he would go first to Geneva to get a charter plane for his journey to Cairo on Feb. 2, Damascus from Feb. 4-7, when he is due in Beirut, Amman on Feb. 8 and Jerusalem on Feb. 10. Informed sources said he would return to Cairo on Feb. 11.

IMF, Egypt still negotiating

WASHINGTON, Jan. 25 (R). — The International Monetary Fund has not yet reached a decision on Egypt's request for a \$140 million loan to help the country's ailing economy, informed sources said here today. Commenting on a report in the semi-official Cairo newspaper Al Ahram that agreement on the loan had been reached, the sources noted that an economic mission from the IMF was still in Cairo holding discussions with Egyptian authorities.

Volume 2, Number 369

AMMAN, WEDNESDAY, JANUARY 26, 1977 — SAFAR 6, 1397

Price : 50 fils

In joint communique Saudi Arabia, France stick to known stands

ADDAH, Jan. 25 (AFP). — A third of its purchases from Saudi Arabia over the next three years but it will be at market prices. The communique said the two leaders believed this country's development plan offered openings for French expertise in desalination and water resources, electricity, transport and telecommunications, housing, exploitation of mineral resources and industrial projects. The president said three housing contracts between French and Saudi concerns were in the process of being approved. They would be worth \$710 million. The president said he had invited King Khaled to visit France. The king, though ordered by his doctors not to exert himself because of a leg ailment, went to the airport to see off M. Giscard d'Estaing in a farewell gesture of respect.



FIRST TALKS. — West Germany's Chancellor Helmut Schmidt (right) greets U.S. Vice President Walter Mondale as he arrives at the Chancellery for his first talks with the West German government in Bonn Tuesday. (AP wirephoto).

After storm over newspaper report Schmidt, Mondale meet

BONN, Jan. 25 (Agencies). — Chancellor Helmut Schmidt and U.S. Vice President Walter Mondale held four hours of talks today after the West German newspaper sought to clarify a blunt-spoken newspaper interview that jolted the American's goodwill visit. In a joint news conference after the meeting, Mr. Mondale said that talks with Mr. Schmidt had been warm and useful. Mr. Schmidt spoke of his "great satisfaction".

Lebanon eases censorship on foreign news dispatches

BEIRUT, Jan. 25 (Agencies) — Authorities today lifted pre-censorship on foreign news organizations operating in Lebanon. It was seen as a sign of growing confidence in the present truce. The decision was announced at a press conference at the headquarters of the public security service, just three weeks after the introduction of stringent censorship regulations which made reporting on the country's problems virtually impossible. Public Security Commissioner Zahi Boustany told foreign correspondents that a list of 13 subjects banned from publication and outlined in a memorandum on Jan. 1 to foreign correspondents by Col. Antoine Dahdah, head of the Public Security Department here, would remain in force. Mr. Boustany announced that correspondents will no longer be obliged to submit articles before sending them abroad. However copies must be supplied to the censorship office the same day or the next day. Television and film crews will benefit from equivalent easing of regulations. "That will leave us the possibility of making remarks that you will be free to take account of or not," Mr. Boustany said. However the Jan. 1 censorship principles remain in force, he cautioned. These ban the publication of news "inciting dissension" or "spreading confusion or panic", damaging the prestige of state institutions, and depicting isolated incidents as exceptional events or outbreaks of religious conflict. News about the armed forces is also forbidden unless announced "by competent officials", he said. Mr. Boustany, who had been responsible for enforcing the regulations, added that pre-censorship would continue for the domestic press in Lebanon, once the only Arab country with a free press reflecting every shade of political opinion. One of the reasons for the surprise announcement appeared to be a government desire to attract foreign investment to rebuild an economy shattered by 19 months of civil war which left an estimated 60,000 dead, observers said. Businessmen have said that foreign investors would be reluctant to risk ventures in a country as long as they had no reasonably accurate picture of developments. The war has caused losses estimated at up to \$5 billion with Beirut's commercial district — once the financial hub of the Middle East — in total ruin. The Lebanese cabinet last night adopted a decree setting up a Development and Reconstruction Council to draw up a general development programme. The 12-member development council, which will replace the Planning Ministry, will enjoy financial independence. It will propose and help carry out economic, financial and social policies. The censorship decree was issued under extraordinary powers granted to President Elias Sarkis' government by parliament last month. It provided for fines of up to 15,000 Lebanese pounds (about \$5,000) and a maximum of three years' jail for violation of censorship rules. The government appeared determined to avoid the kind of acrimonious public dispute over Lebanon's problems which helped wreck previous ceasefires. Observers said abolition of pre-censorship on the foreign press was likely to be followed by a gradual relaxation of censorship on domestic newspapers. Foreign correspondents said that a number of local newspapers enjoyed considerably more freedom over the past three weeks than foreign news organizations, and this applied also to the radio station of Mr. Pierre Gemayel's Phalangist Party. The radio carried detailed reports on last week's food price riots in Egypt while the local press was banned from publishing accounts of the unrest.

ISRAEL UNEASY OVER ARAB FORCES IN NABATIYEH

In Nicosia, the Palestine Liberation Organisation (PLO) office said today that the Arab peace-keeping force has entered south Lebanon to quell fighting between Palestinian commandos and Christian rightists.

Peres tells new settlers they will stay

TEL AVIV, Jan. 25 (R). — Defence Minister Shimon Peres told Israeli settlers establishing a new village on the West Bank today he was confident it would remain under any agreements reached on a Middle East settlement. He was addressing settlers who are establishing a new Nabal army-farming outpost in the Jordan Valley north of the Dead Sea. "This is an area which Israel needs both for its defence and its economy," he said. Nabal villages are established by soldiers in border areas with the young men and women dividing their time between guard work, army training and farming. Most eventually become civilian farmers. A further aim of the decision to plunge the deterrent force deeper into various regions of Lebanon was to pave the way for refugees to return to their homes.

Recently arrived at FINLANDIA

The most modern European models of elegant office desks and chairs, garden tables, living rooms, bedrooms. FINLANDIA SHOWROOM 3rd circle, Jabal Amman, near the new insurance building. Tel. 42667.

A LEADING AMERICAN PHARMACEUTICAL COMPANY HAS AN OPENING FOR

Efficient secretaries with minimum two years experience. Good shorthand knowledge and experience an asset. An attractive salary is being offered along with many appealing fringe benefits. For appointments please contact telephone no. 42945.

100,000 Spanish workers strike to protest slaying of leftist Madrid lawyers

MADRID, Jan. 25 (R). — About 100,000 workers in Spain's two main cities, Madrid and Barcelona, went on strike today in protest against a machinegun attack last night on a leftwing lawyers' office which left five people dead and four wounded. Opposition sources said both the premier and the opposition were determined to go ahead with the negotiations on the elections. Informed sources said the atmosphere was so tense last night that Interior Minister Martin Villa personally warned some leftist politicians not to sleep in their homes. Spain's three main underground labour unions today called for strikes of mourning and protest and blamed the extreme right for the violence. Strikes which labour sources said involved 100,000 workers paralysed the SEAT car plant near Barcelona, as well as numerous factories in Madrid's industrial zones. In a joint communique, the Communist-led Workers Commissions, the Socialist General Workers Union and the leftwing workers Syndical Union said the extreme right was also responsible for the kidnappings. "Such acts of the extreme right form part of a plot to make the present democratic process inviable through fascist methods of provocation aimed at the workers, the people and the armed forces," they said. But they advised against street demonstrations, saying these could generate further violence. Two men last night burst into the Madrid law office used by the Workers Commissions and blazed away with sub-machine guns. Four lawyers were killed instantly and others were wounded. A youth was shot dead, apparently by extreme rightwing gunmen, during a demonstration for the release of political prisoners last Sunday. A girl died after her skull was broken by a police smoke bomb during a demonstration yesterday. Police today used smoke bombs to disperse 200 students who had gathered in Madrid to mourn her death. Sources close to Prime Minister Suarez said he had not put off a trip to Egypt, Iraq and Syria starting on Thursday but he might have to change his plans if the situation deteriorated.

Tomorrow's Water As It Was In The Good Old Days **FILOPUR** Filter Agents: Gimtex Co. Tel 36025

Senor Suarez had met the six opposition leaders for talks on the handling of parliamentary elections planned this year. But the communique said the violence had overshadowed their election discussions. Opposition sources said both the premier and the opposition were determined to go ahead with the negotiations on the elections. Informed sources said the atmosphere was so tense last night that Interior Minister Martin Villa personally warned some leftist politicians not to sleep in their homes. Spain's three main underground labour unions today called for strikes of mourning and protest and blamed the extreme right for the violence. Strikes which labour sources said involved 100,000 workers paralysed the SEAT car plant near Barcelona, as well as numerous factories in Madrid's industrial zones. In a joint communique, the Communist-led Workers Commissions, the Socialist General Workers Union and the leftwing workers Syndical Union said the extreme right was also responsible for the kidnappings. "Such acts of the extreme right form part of a plot to make the present democratic process inviable through fascist methods of provocation aimed at the workers, the people and the armed forces," they said. But they advised against street demonstrations, saying these could generate further violence. Two men last night burst into the Madrid law office used by the Workers Commissions and blazed away with sub-machine guns. Four lawyers were killed instantly and others were wounded. A youth was shot dead, apparently by extreme rightwing gunmen, during a demonstration for the release of political prisoners last Sunday. A girl died after her skull was broken by a police smoke bomb during a demonstration yesterday. Police today used smoke bombs to disperse 200 students who had gathered in Madrid to mourn her death. Sources close to Prime Minister Suarez said he had not put off a trip to Egypt, Iraq and Syria starting on Thursday but he might have to change his plans if the situation deteriorated.

Carter cancels Ford's petrol plan, abolishes White House privileges

WASHINGTON, Jan. 25 (R). — President Carter, acting swiftly to stress his new authority, yesterday cancelled a plan by ex-President Ford to end petrol price controls and also abolished prized privileges for his White House staff.

The blow for White House staff was an order by Mr. Carter ending chauffeured door-to-door limousine service for senior members, a privilege enjoyed for decades.

W. German state

discusses economic

ties with Egypt

FRANKFURT, Jan. 25 (R). — Dr. Hans Filbinger, Baden-Wuerttemberg State Premier, left on a 10-day visit to Egypt yesterday for talks which could lead to increased economic ties between that country and industry in his state.

Dr. Filbinger was accompanied by a delegation of state government members and businessmen.

He told an airport press conference that the visit was in response to an invitation made by President Anwar Sadat last year, while the Egyptian leader was touring West Germany.

Dr. Filbinger said the aim of the visit was to intensify economic relations between his state and Egypt.

He pointed, in this respect, to some German firms based in Baden-Wuerttemberg who were carrying out work in Egypt and said plans were already completed for more projects. He gave no details of these.

The Egyptian Consul General in Frankfurt, Mr. Hussein Al Kamal took the opportunity to remind the delegation and newsmen of the favourable conditions for foreign investors in Egypt.

Mr. Carter also emphasized his determination to save fuel in the current severe natural gas shortage by keeping the temperature in the White House well below the austere maximum of 18 centigrade he has urged Americans to observe.

Mr. Carter, in office only four days, withdrew the plan to end petrol price controls that President Ford submitted on Jan. 19, the day before he left office.

The plan, which would have taken effect on Feb. 2 unless vetoed by the Democratic-controlled Congress, aroused a major controversy with opponents saying it would raise prices at least six cents a gallon and was a Christmas gift for big oil companies.

Federal Energy Administration (FEA) officials had said it would add only two cents a gallon to some grades of petrol, now about 60 cents for regular grade and 65 cents for premium.

Mr. Carter said he wanted to make his own decision and pointed out that the shortage of natural gas, caused by the worst winter for years, might have a severe effect on petrol prices unless controls were maintained.

Explaining the ending of door-to-door limousine service for senior members of the White House staff, Press Secretary Jody Powell said the order would not save a great deal of money in the multi-billion dollar federal budget but it had great symbolism in view of the president's call in his inaugural address for sacrifices by the American people.

"If the president and the administration intend, as we do, to call upon other parts of the executive branch to make reductions and cutbacks -- if he, as he has done, calls upon Americans to make sacrifices for the common good, it is certainly incumbent on us to make a similar reduction in the benefits we enjoy," Mr. Powell said.

The press secretary also said he would have an announcement soon about the withdrawal of

other privileges long enjoyed by the White House staff.

The White House also announced that the first foreign leader to pay a state visit to Washington to see President Carter would be Mexico's President Jose Lopez Portillo. He will be here on Feb. 14 and 15.

It also said Canadian Prime Minister Pierre Trudeau would be in Washington for talks with Mr. Carter on Feb. 21 and 22.

The president held his first cabinet meeting today and told department heads he would give them more authority than their predecessors.

He stressed campaign promises to limit the authority of the White House staff and said he would be available to cabinet officers day or night to discuss problems.

Japan's trade surplus nearly doubles to all-time record

TOKYO, Jan. 25 (R). — Japan's trade surplus with the rest of the world almost doubled last year to an all-time record of \$9.92 billion, the Finance Ministry announced yesterday.

Exports soared by 21 per cent to a new peak of \$66.02 billion while imports, held back by Japan's sluggish economic recovery, increased by only 13 per cent to \$56.1 billion, the ministry said in a preliminary report.

The trade figures helped swing Japan's overall balance of payments into a surplus of \$2.93 billion, after a 1975 deficit of \$2.68 billion.

The ministry gave no geographical breakdown of the trade figures.

But officials at the Ministry of International Trade and Industry (MITI) calculated the surplus with the European Economic Community (EEC) at \$3.98 billion. With the United States, the Japanese advantage was an even bigger \$5.23 billion, they said.

EEC authorities have already demanded that Japan should take action to cut the surplus or face possible retaliation.

Apart from the tension with European trading partners, Japanese government officials have voiced fears that a similar trade conflict with the United States could erupt this year.

The total trade surplus in December alone was a record monthly figure of \$1.64 billion.

The year's surplus was trimmed

by a \$6.22 billion deficit on "invisible" trade -- such items as shipping, insurance, and tourism -- and money transfers.

Finance Ministry officials said this deficit reflected the year's increased volume of trade, which swelled ship charter and other fees, as well as spending by thousands of Japanese tourists who travelled to Montreal for the Olympic games.

WANTED

An American insurance company requires salesmen and sales managers to work in Saudi Arabia.

Applicants should have a good command of English.

Interested persons should contact

Mr. George Smith

at the Intercontinental Hotel, Amman,

between Jan. 26 - 28.

WANTED FOR RENT

New or nearly new unfurnished modern villa, in

Jabal Amman or Shmeisani area.

Two or three bedrooms, reception rooms, kitchen,

dining room, bathrooms and central heating.

Contact Jordan Fertilisers Industry Co. Ltd.,

Amman, P.O. Box 5142, tel. 42281, ext. 41.

VIRGINIAN BLEND

ENGLISH TYPE

A PERFECT CIGARETTE FOR A PERFECT TASTE

AMMAN MARKET PLACE

<p>FURNITURE</p> <p>AD-DAR</p> <p>FOR THE MOST PRACTICAL AND LUXURIOUS FURNITURE.</p> <p>WE ALSO CARRY A WIDE VARIETY OF THE MOST CONTEMPORARY LIGHTING.</p> <p>Price Moderate at</p> <p>NO. 222, AMMAN - JORDAN</p>	<p>RESTAURANTS</p> <p>babalu RESTAURANT</p> <p>Wine and dine with your family and friends in our European relaxing atmosphere while enjoying our famous cuisine.</p> <p>Daily breakfast with buffet</p> <p>WINE, ABU EL SAUD</p> <p>REASONABLE PRICES FULLY COMFORTABLE</p> <p>JABAL AMMAN - 2ND CIRCLE - TEL. 41115</p>	<p>MERRYLAND</p> <p>THE GREEN DOLBY</p> <p>BUSINESS LUNCHEON</p> <p>DANCING PARTIES</p> <p>For Reservations</p> <p>TEL: 30274, 30374-72</p>	<p>DAMASCUS</p> <p>Luxury air-conditioned coaches leaving Amman & returning from Damascus four times daily. Departures from Amman on: 7am, 9am, 3pm, 5pm.</p> <p>1st class service includes refreshments on board and handling of all passport formalities by your JETI hostess.</p> <p>JORDAN EXPRESS TOURIST TRANSPORT CO. LTD.</p> <p>TEL: 3872 / 3442, P.O. BOX 2096, CABLE: PULLMAN</p>	<p>FOOD-MARKETS ETC.</p> <p>SUN SILVER MARKET</p> <p>OUR SUPERMARKET BOASTS A LARGE VARIETY OF THE FINEST IMPORTED FOODS.</p> <p>WE ALSO HAVE HOME DELIVERY SERVICE.</p> <p>JABAL AMMAN, 5th CIRCLE, TEL. 41201</p>	<p>MISC.</p> <p>NEW BAND AT LE CESAR Restaurants & Nightclub</p> <p>Enjoy our superb Oriental and European cookery.</p> <p>For reservations call 24421 Jabal El Weibdeh - Amman</p>
<p>Scandinavian Show Rooms</p> <p>The luxury furniture for every taste and pocket.</p> <p>Civil Defense Street - TEL. 42840</p> <p>P.O. BOX 374 - Amman, Jordan</p>	<p>SNACK BAR RESTAURANT</p> <p>Open daily for breakfast, lunch & dinner</p> <p>Pizza, Steaks & Hamburger</p> <p>Take-away service</p> <p>THIRD CIRCLE - JABAL AMMAN - NEAR JORDAN INTERCH. TEL. 44581</p>	<p>FOR YOUR EVERY TRAVEL NEED...</p> <p>JORDAN TOURIST & TRANSPORT CLC.</p> <p>KARAK</p> <p>TEL. 25174 & 25175</p> <p>KING HUSSEIN ST.</p>	<p>AVIS</p> <p>AIRPORT 56347</p> <p>AMMAN 41350-41355</p>	<p>To advertise in this section</p> <p>above 6776-2-3</p>	<p>Salon Sarkis</p> <p>SAGUNIYA ST. JABAL WEIBDEH, AMMAN, JORDAN</p> <p>Most up-to-date hairstyles and cuts.</p> <p>FIRST HAIRCUT IS ON US</p> <ul style="list-style-type: none"> No appointments necessary. Competitive prices. Free parking.
<p>INSURANCE</p> <p>For: SHIPPING TRAVEL & TOURISM INSURANCE</p> <p>Please Contact:</p> <p>AMMAN KAWAR & SONS</p> <p>Travel & Tourist Agency</p> <p>P.O. BOX 222, AMMAN TEL. - 22324-9</p> <p>TELEX 122 & 1520</p>	<p>THE FLYING CARPET CLUB</p> <p>opens for lunch an elegant oriental BUFFET</p> <p>TEL. : 62181 AMMAN</p>	<p>PHILADELPHIA RENT-A-CAR</p> <p>All new Excellent insurance Normal rates</p> <p>Tel. 25191</p>	<p>Jordan Flowers</p> <p>2nd Circle, Jabal Amman</p> <p>Tel. 44155</p>	<p>BOUTIQUES</p> <p>La Boutique</p> <p>2015 HUSSEIN ST. AL ADDALY TEL. 6011</p>	<p>Amis Beauty Salon</p> <p>The very finest in hair & beauty care featuring known NAHLA KHA using the finest cut</p> <p>by: Harriet Hubbar</p> <p>JORDAN INS. BLDG. JABAL AMMAN TEL. SMITH</p>

ENERGY QUESTIONMARK HANGS OVER THE WORLD

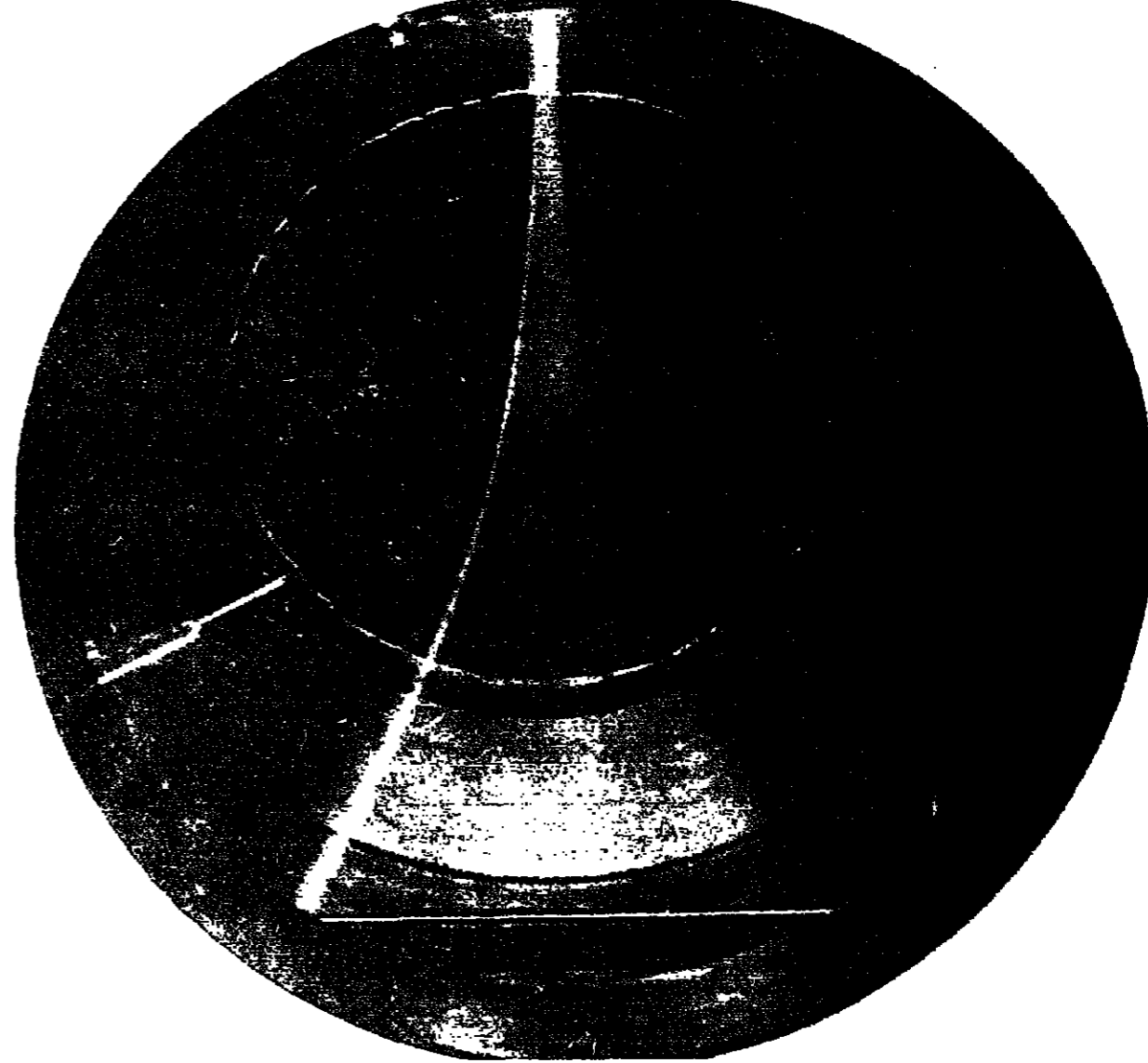
Efforts to tame hydrogen fusion approach critical stage

By Robert C. Cowen
WASHINGTON, D.C. (CSM) —
Dr. P. Velliokov (USSR) and Ed-
ward Kintner (USA), happiness
chart prepared by Bas Pease
... It traces two decades of
... the nuclear process that
... matter into energy to power
... stars.

added. "If you try to envision the
planet without fusion to help sup-
ply energy, I don't know how you
do it. So you go ahead hopefully,
aggressively, taking the problems
as they arise in time."
Not all experts are quite so opti-
mistic about mankind's ability to
appropriate the power supply of
the stars, the ultimate energy
source that theoretically could
give us abundant power for the
foreseeable future.

earth, doesn't come naturally.
As with all atoms, the nuclei of
hydrogen carry a positive electric
charge. The closer they come to-
gether, the more they try to fly
apart, since like charges repel one
another.
Yet if two hydrogen nuclei do
come very close together, a power-
ful nuclear force of attraction
takes over. The two particles fuse
to form helium and release energy.
The hydrogen particles must
move together very fast to over-
come their natural repulsion. Their
speeds must be equivalent to
temperatures of many tens of mil-
lions of degrees. A gas at such
temperatures would disperse ex-
plosively unless forcibly confined.
Stars hold their hydrogen fuel
together by the overpowering pres-
sure of gravity. But an object less

search, judge that it will be some
years before experts know whether
or how microbombs can be a prac-
tical source of power. More tan-
gible progress is being made by
following the lead of the aurora.
Because atomic nuclei are elec-
trically charged, a magnetic field
can get a grip on them. Right above
our heads, earth's magnetic field
traps electrically charged particles.
They travel back and forth be-
tween north and south polar re-
gions, where relatively intense
parts of the field reflect the par-
ticles as light is reflected by a
mirror.
When particles leak out of this
entrapment into the lower atmos-
phere, they give rise to the lights
of the aurora.
Magnetism is an effective means
of controlling charged particles. So
for two decades, the main thrust
of fusion has been a search for
the best, most leak-proof magne-
tic bottle.
One main type mimics the au-
roral system, with magnetic mir-
rors plugging the ends of the bot-
tle. Recent work in the United
States and the Soviet Union has
brought this concept to a point
where Drs. Kintner and Velliokov
consider it a strong backup to the
currently most promising concept
of all, the tokamak, a doughnut-
shaped magnetic bottle.
Invented in the Soviet Union and
developed intensively in several
countries, the tokamak is the type
of machine that scores highest on
the Peace fusion progress chart.
One such device at MIT, called
Alcator, has improved a thousand-
fold on the fuel density and con-
finement time possible 20 years
ago. Only another fifty-fold im-
provement is needed to reach the
range practical for self-sustained
fusion.
Meanwhile, other laboratories in
several countries have pushed to-
kamak temperatures within sight
of fusion heat.
What encourages physicists in
all this is the successful way their
projections of tokamak perfor-
mance are working out. They see
no obstacle to scaling up to reac-
tor size.
The United States, the Soviet
Union, Japan and perhaps Euratom
are all building and planning big-
ger and better tokamaks that, in
one or two development stages,
should have fusion running in the
laboratory by the 1980s.
Anticipating this kind of prog-
ress, ERDA in the United States
and the Kurchatov Institute, of
which Dr. Velliokov is Deputy Di-



Hydrogen glows in the grip of magnetic forces.

Progress in recent years leads experts to think they are at last about to get the energy source that powers the sun running in the laboratory. But it may take decades of development to find out whether or not this can be used in power plants. And those who expect fusion to be environmentally 'clean' may be shocked to learn that fusion's first use may be to breed plutonium to fuel ordinary nuclear plants.

They do not doubt that fusion
can be made to go in the labora-
tory. However, they add that "the
technological and engineering dif-
ficulties now are known to far sur-
pass any original estimates." They
judge it will take another decade
or two just to find out whether
or not fusion is a viable energy
option.
"Is civilisation mad to persist
in a search that seems so com-
plex, so uncertain?" they ask rhe-
torically, and answer that "the
challenge is too important to be
ignored."
There are only two other long-
term energy options: Nuclear fis-
sion via the breeder reactor, with
its problems of public acceptance,
of radioactive waste disposal and
of keeping poisonous plutonium
out of the environment and the
hands of terrorists; and solar en-
ergy, which as a major power source
right now seems even more com-
plex and uncertain than fusion.
Thus it is that both optimists
and pessimists among the experts
agree that mankind has no sense-
ible alternative to continuing to ex-
plore whether or not it really is
practical to try to make hydrogen
atoms undergo a process that, on

massive than the giant planet Ju-
piter doesn't have the weight to
do the job.
So physicists look to means of
confinement they know will work
on earth. They look to the aurora
borealis and the hydrogen bomb.
In the bomb, the explosion of a
nuclear fission trigger compresses
the hydrogen fuel violently, heat-
ing it to temperatures where fu-
sion ignites. Everything happens
so fast that fusion takes place be-
fore the gas has a chance to dis-
perse.
In laboratories in the United
States, the Soviet Union, France
and Japan, physicists are exper-
imenting with miniature hydrogen
bombs as a possible source of po-
wer. Intense beams of laser light
or of fast-moving particles strike
millimetre-size fuel pellets. This
vaporises the pellet surface, creat-
ing pressures that compress the
fuel a thousandfold to ignite a
miniature nuclear explosion.
Alternatively, magnetic fields a
million times more powerful than
that of earth crush the pellets to
the same end.
While this line of attack has
promise, Drs. Velliokov and Kintner,
in a paper surveying fusion re-

ctor in the Soviet Union, antici-
pate having prototype power reac-
tors by the end of that decade.
These would not be power plants,
but test reactors to try out mate-
rials, processes and operating con-
ditions of power stations.
The practical problems already
loom formidably. The type of fu-
sion envisioned takes place be-
tween doubly heavy hydrogen,
called deuterium, and tritium, a
form three times as heavy as ordi-
nary hydrogen. This type of fusion
releases most of its energy as fast-
moving neutrons.
These must pass through the
walls of the containment vessel
and can cause much damage as
they do so. They will make that
wall and other vessel materials
radioactive. No material now
known can stand up to that attack
satisfactorily.
Repair and replacement of the
radioactive containment wall in a
highly radioactive environment
may be a regular maintenance job
on a tokamak-type power plant.

Dr. Rose and Mr. Feitrag feel that
this problem of the wall may be
critical to success or failure of fu-
sion power.
This phalanx of problems adds
to the temptation some experts
feel to produce a quick, cheap and
dirty form of fusion right away.
Deuterium-tritium fusion produ-
ces neutrons abundantly. When
the non-fissile form of uranium is
irradiated by neutrons it turns into
fissile plutonium. It takes only a
back-of-the-envelope calculation
for an expert to show that fusion
can outbreed the controversial
breeder (fission) reactor.
What's more, the fusion process
does not have to be efficient to be
economically attractive for this
purpose. The generation of fusion
devices now being built will not
achieve self-sustained fusion, that
is, a reaction that will run by it-
self and not eat up more energy
than it produces. But they will pro-
duce plenty of neutrons for breed-

Dr. Kintner says he doubts that
such a thing would be tried in the
United States because of public
concern about ordinary breeder re-
actors.
But Dr. Velliokov says: "In the
USSR, we have a more positive
attitude towards nuclear power."
He says his country is planning
such a hybrid fusion reactor be-
cause the value of the plutonium
produced would more than make
up for the inefficiencies of the fu-
sion reactor.
However, the main goal of fu-
sion research in the Soviet Union,
as elsewhere, is development of
full-fledged fusion power. Asked
what would be the ideal prog-
ramme for reaching that goal, Dr.
Kintner said:
"I think we have it. We have a
leading concept in the tokamak
and a good backup in the mirrors,
while we are also looking into a
number of other concepts. Along-
side this, we are starting a long-
term attack on reactor problems."

JORDAN TIMES DAILY GUIDE

RADIO JORDAN

Table with 2 columns: Time and Program Name. Programs include Morning melodies, News, News reports, Sign off, Pop session, News summary, Concert hour, Old favourites, Easy listening, Play of the week, Science report, News report, Sign off.

AMMAN AIRPORT

Table with 3 columns: Arrivals, Departures, and Time. Lists destinations like Muscat, Doha, Dubai, Karachi, Abu Dhabi, Jeddah, Rome, Athens, Amsterdam, Vienna, Copenhagen, Aleppo, Damascus, London, Cairo, Doha, Abu Dhabi, Muscat, Riyadh, Dhahran, Kuwait, Tehran, Baghdad, Rawalpindi.

BBC RADIO

Table with 2 columns: Time and Program Name. Programs include World News, Sarah Ward, The World Today, Terry Wogan's LP Show, News, Sarah Ward, Report on Religion, Youth by Joseph Conrad, John Peel, News, Financial News, Paperbacks, Talkabout, Command Performance, Business and Industry, Farming World, Radio Newsreel, Sports Round-up, World Radio Club, A Jolly Good Show.

VOICE OF AMERICA

Table with 2 columns: Time and Program Name. Programs include The Breakfast Show, News, Regional and Topical Reports, VOA Current News Summary, News Roundup, Reports, Actualities, Opinion, Analyses, News Summary, Dateline, Special English, News, Feature: Space and Man, News Summary, VOA Magazine, American Science, Cultural, Letters, Special English, News, Music USA (Standards), News Roundup, Reports, Actualities, Opinion, Analyses, News Summary.

EMERGENCIES

Table listing emergency services by location (Amman, Irbid, Zarqa, Usham) and contact information (names, phone numbers).

USEFUL TELEPHONE NUMBERS

Table listing various services and their phone numbers: Ambulance (75111), Civil defence rescue (24391-4), Fire headquarters (22090), First aid, fire, police (19), Jordan Electric Power Co. (36381-2), Municipal water service (37111-3), Police headquarters (39141), Najdeh, roving patrol rescue police (21111, 37777), Cultural Centres (USIS, British Council, French Cultural Centre, Goethe Institute, Soviet Cultural Centre, Amman Municipal Library).

JORDAN TELEVISION

Table listing TV channels and programs: Channel 3 & 6 (Quran, Cartoons, Agricultural programme, Lucy show, News in Arabic), Channel 6 (News in Hebrew, Varieties, Doctor in charge, The pallisers, News in English, Mystery movie).

Handwritten Arabic text: هذا صحتنا

GOREN BRIDGE

BY CHARLES H. GOREN AND OMAR SHARIF
© 1976, The Chicago Tribune

Both vulnerable. North deals.

- NORTH**
 ♠ 1054
 ♥ KQ2
 ♦ AJ7
 ♣ K1095
- EAST**
 ♠ AKQ8
 ♥ J96
 ♦ 985
 ♣ Q63
- SOUTH**
 ♠ J32
 ♥ A84
 ♦ KQ2
 ♣ AJ82

The bidding:
 North East South West
 1♠ Pass 2NT Pass
 3NT Pass Pass Pass
 Opening lead: Nine of ♣

When dummy appeared, it seemed that declarer had a straightforward club guess for his no trump game. However, East created an illusion that declarer had a safe line, which, for all practical purposes, doomed the contract.

South had a difficult response to make to his partner's one club opening bid. He had an absolutely flat hand and his only four-card suit was the one his partner had opened. Since a jump to three clubs would have suggested a more unbalanced hand, South chose the value response of two no trump despite the fact that his spade stopper was virtually non-existent. North had an easy raise to game.

West led his top spade, and routine defense would have been for East to cash his four spade tricks and exit

with a red card. Declarer's fate would then hinge on whether he could guess the

location of the queen of clubs—a 50-50 proposition. East, however, found a shrewd way to improve the

defensive chances. He cashed only three high spades before exiting with a heart. Since declarer needed only three tricks from the

club suit, the contract now seemed to be impregnable. From the play to the first three tricks, West appeared to hold the thirteenth spade,

and it was a simple matter to keep West off play until the third club trick was established. So declarer won the heart in his hand, briskly

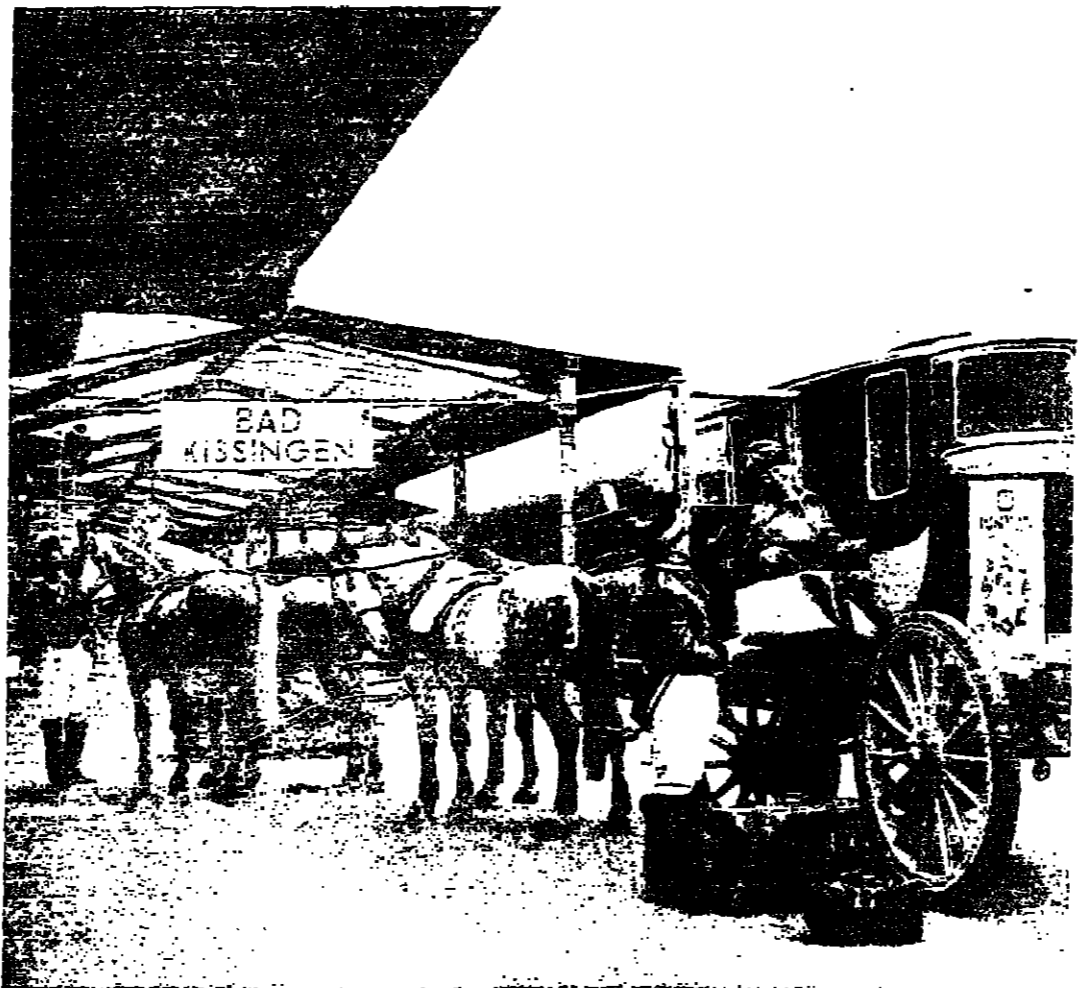
cashied the ace of clubs and ran the jack. He was not unduly upset when East won this trick, until that defender firmly placed the

eight of spades on the table for the setting trick.

South might have mis-guessed the position of the

queen of clubs anyway. Once East had produced the three top spades, declarer might well have decided that West was more likely to hold the only missing high card of any consequence. Nevertheless, East is to be congratulated on a pretty piece of deception that was bound to fool declarer.

THE PAGE FIVE FEATURE PHOTO



STEP THIS WAY --
 Start your holiday with a coach and four and it's sure to be a success. The enterprising city fathers of Bad Kissingen, a West German spa town, doubtless felt German spas are acknowledged to be medically first-rate, but publicly never did anyone any harm. The coach and horses are also ready to welcome visitors who book a holiday arranged by the German Federal Railways. The coach takes tourists through the Medieval Innerstadt and the picturesque countryside.

FORECAST FOR WEDNESDAY, JANUARY 26, 1977

Your Daily HOROSCOPE

from the CARROLL RIGHTER INSTITUTE

GENERAL TENDENCIES: The early part of the day will give you the chance to express your down-to-earth and practical talents. Later, use care in dealing with those who are in positions of authority as overdemands are apt to be made on you in several ways.

ARIES (Mar. 21 to Apr. 19) Tackle a financial problem that is vital to your welfare and handle it wisely. Follow advice of an expert you know and get ahead faster. Don't ask pals for favors.

TAURUS (Apr. 20 to May 20) Take time to improve health and appearance in the morning. Be careful you do not get into an argument with a bigwig.

GEMINI (May 21 to June 21) Be sensible in the handling of some personal matter in the morning. Take care you do not go overboard where some new venture is concerned. Consult an expert regarding problems and then follow advice given.

MOON CHILDREN (June 22 to July 21) Come to a better understanding with a pal, but take care you do not argue with an influential person later. Planning a party early is wise too, so all goes smoothly later.

LEO (July 22 to Aug. 21) Go after the backing you need from the influential for some project of importance to you. Get into some public work that can be of help to you and the community in which you reside.

VIRGO (Aug. 22 to Sept. 22) Forget the unimportant and delve into a new project that interests you and it can become a successful venture. Take right treatments that will improve your health.

LIBRA (Sept. 23 to Oct. 22) Try to come to a better understanding with debtors and creditors and get better results in the future. Show more affection for a loved one.

SCORPIO (Oct. 23 to Nov. 21) Be patient with a partner who holds on to his views as tenaciously as you do yours. Try to use reason to come to a better understanding.

SAGITTARIUS (Nov. 22 to Dec. 21) Schedule your time so that you get a lot done. Be cooperative with a fellow worker who has good ideas. Take no chances with credit.

CAPRICORN (Dec. 22 to Jan. 20) Give full attention to creative work and get good results with it. Show more devotion to the one you love and get fine response.

AQUARIUS (Jan. 21 to Feb. 19) Study the situation at home carefully and know how to better it without anger or confusion. Don't neglect to pay important bills.

PISCES (Feb. 20 to Mar. 20) Get reports out since you can do so with precision and neatness today. Good day to visit. Take time for reading you have neglected in the past.

GRAFFITI

...HALLO!
 IS THIS 6771-2-3-4?
 I'D LIKE TO RESERVE
 A SPACE FOR AN AD IN
 THE JORDAN TIMES...

GOSSIP:
 SOMETHING
 NEGATIVE
 DEVELOPED
 AND ENLARGED
 BY THOSE IN
 THE DARK

LAUGHS FROM EUROPE

GERMANY
Facke

"My husband is the umpire — that's why he always gets home early after the game."

THE BETTER HALF. By Barnes

"Just in case he noticed that bent fender — forget the glass, and meet him at the door with the pitcher."

JUMBLE THAT SCRAMBLED WORD GAME
 by Henri Arnold and Bob Lee

Unscramble these four Jumbles, one letter to each square, to form four ordinary words.

VORLE
 [] [] [] [] [] [] [] []

NOFET
 [] [] [] [] [] [] [] []

UNJELG
 [] [] [] [] [] [] [] []

TAPECK
 [] [] [] [] [] [] [] []

Print answer here: A [] [] [] [] [] [] [] []

(Answers tomorrow)

Yesterday's Jumbles: KNELL AMUSE GLOOMY TAUGHT
 Answer: Wheeled aboard ship—THE HELMSMAN

"I didn't cost me a thing!"

SOMETIMES ONE GETS INTO IT BY MEANS OF PASSES.

Now arrange the circled letters to form the surprise answer, as suggested by the above cartoon.

TONIGHT'S T.V. FEATURES

MYSTERY MOVIE:
BONNIE AND MCLOUD
 McCloud helps a young woman on the run who is chased for having struck a murderer in self defence.

LUCY SHOW:
LUCY HELPS THE COUNTESS
 Lucy tries to help her friend, turned real estate agent, to lease one of the flats entrusted to her.

MAKE THE JORDAN TIMES WORK FOR YOU

An advertisement in the Jordan Times will be seen by some 10,000 people in Jordan, Syria and Lebanon. Don't you have anything to say to them?
 To spread your word, contact the Jordan Times advertising department by phone at 67171, or in person at the Jordan Times - Al Ra'i building, on University Road.

PEANUTS

WOODSTOCK: I'VE OFTEN WONDERED IF YOU HAVE A PHILOSOPHY OF LIFE...

SNOOPY: I MIGHT HAVE KNOWN.

WOODSTOCK: "SMALL IS BEAUTIFUL!"

THE BETTER HALF. By Barnes

"When I took out the garbage last night I think the wrong one of us came back in."

OUT AND ABOUT

CHINESE RESTAURANT
 First Chinese restaurant in Jordan. First Circle, Jabal Amman, near the Abliyeh School or CMS. Tel. 38968. Open daily from noon to 3:30 p.m. and 6:30 p.m. to midnight. Also take home service - order by phone.

THE DIPLOMAT
 First Circle, Jabal Amman. Tel. 25592. Open from 7 a.m. to 1 a.m. Restaurant, coffee-shop, snack bar and patisserie. Oriental and European specialties.

CHICKEN INN
 Restaurants for broasted chicken and light snacks. Take home, lunch or dinner. Jabal Amman, First Circle. Tel. 21083. Jabal Al Luweibdeh, Hawuz Circle. Tel. 30640. Jabal Al Hussein, near Jerusalem Cinema. Tel. 21761. Also in Zarka and Irbid.

WINGS
 First Wings Hotel, Jabal Al Luweibdeh. Tel. 22102/4. Choice of THREE set menus daily for lunch, and a la carte. Open 12-3 p.m. and 7-12 p.m. Specialty: steaks.

THE FLINTSTONES

FRED: I CAN'T BELIEVE HOW FAST THEY CAN TAKE A STREET TODAY!

BARNEY: IT TAKES GOOD MEN AND THE MOST MODERN EQUIPMENT WILL MA...

FRED: AND A DOUBLE HELPING OF GRILL AND TAMALES FOR LUNCH DOESN'T HURT EITHER.

APOLOGY

The Jordan Times apologises for the non-appearance of the daily crossword. Our stocks have literally run dry, and in the meantime we're awaiting our next batch from our suppliers in the U.S. We shall resume publication as soon as is humanly possible.

MUM AND JEFF

MUM: I'M WORRIED ABOUT MY TWIN BROTHER, JEFF! FIRST HE THOUGHT HE WAS A CHICKEN EGG!

JEFF: THEN HE HATCHED AND NOW HE THINKS HE'S A ROOSTER!

MUM: GOOD MORNING DOCTOR!

DOCTOR: GOOD MORNING! AND WHAT CAN I DO FOR YOU?

MUM: OH NOTHING! I CAME TO SEE ABOUT MY BROTHER!

For advertising in above columns contact "Sour Wa Soura" Tel. 38869. Open from 2 a.m. to 1 p.m. and 4-6 p.m.

